

THE TRICKLE-DOWN EFFECT OF ACADEMIC MENTORING

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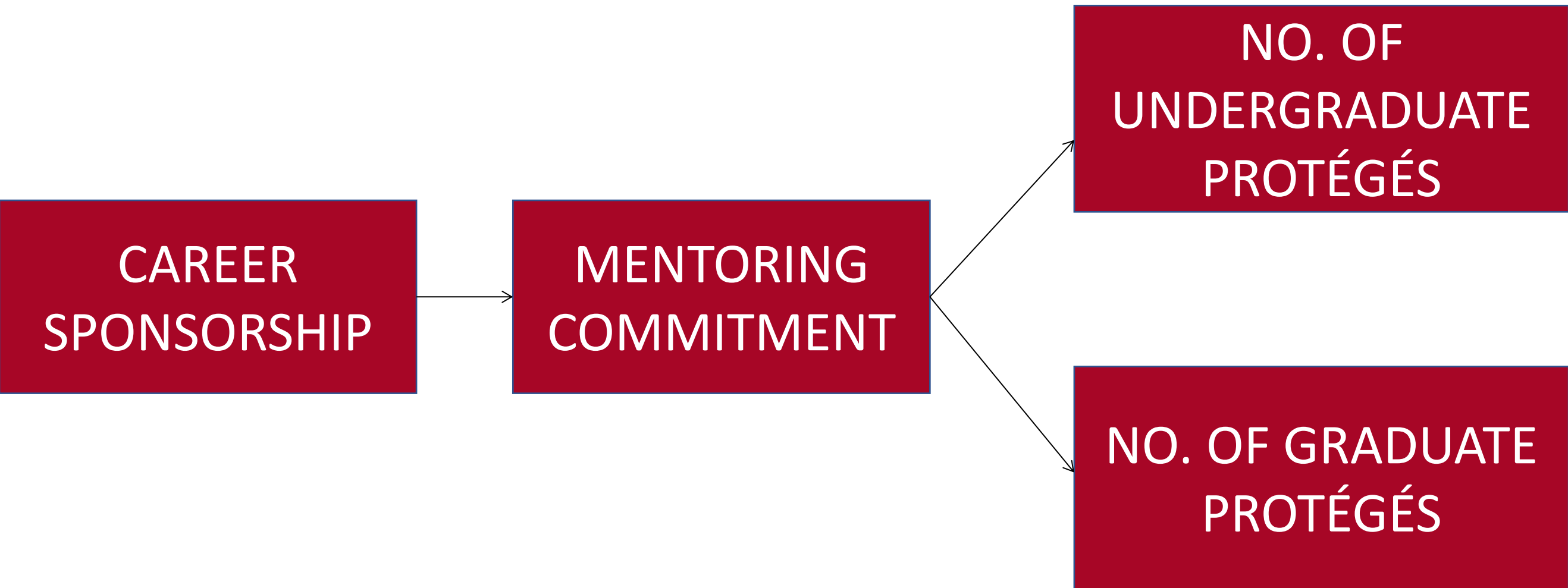
BACKGROUND

- Mentoring involves a long-term investment on behalf of the mentor and benefits the personal and professional development of a protégé (Allen et al., 2004; Baker & Griffin, 2010).
- This investment is key for undergraduate and graduate students whose research opportunities and potential career development can be positively influenced by relationships with faculty members in their field (Johnson, 2007).
- Even though the benefits of mentoring are widely known, mentoring support continues to be elusive for students in higher education settings, where a large percentage of students have no access to mentoring support (NASEM, 2019).

HYPOTHESES

1. Career sponsorship relates positively to mentoring commitment.
- 2a & 2b. Mentoring commitment relates positively to number of undergraduate and graduate protégés.
- 3a & 3b. Career sponsorship has a positive indirect effect on number of undergraduate and graduate protégés.

CONCEPTUAL MODEL



METHODS

- N = 255 participants, of which 65.1% were men, 34.9% were women, and 29.4%, 31.4%, and 39.2% were assistant, associate, and full professors, respectively.
- Analyzed using CFA & Hayes PROCESS 4

RESULTS

- **H1 Supported:** Career Sponsorship and Mentoring Commitment are positively related ($r = .21, p < .01$).
- **H2a & H2b Supported:** Mentoring Commitment is positively correlated with both number of undergraduate protégés ($r = .16, p < .05$) and number of graduate protégés ($r = .14, p < .05$).
- **H3a & H3b Supported:** Career Sponsorship has a positive indirect effect on both number of undergraduate and number of graduate protégés.
- **The results suggest that the relationship between career sponsorship and number of protégés is fully mediated through mentoring commitment.**

IMPLICATIONS

- The study provided **evidence of the trickle-down effect of mentoring in academia.**
- Increasing overall numbers of protégés may also create a greater number of opportunities for diverse and underrepresented students to receive the benefits of mentorship.

Table 1. Descriptive Statistics and Correlation Matrix							
Variable	Mean	SD	1	2	3	4	5
1. Discipline	-	-	-				
2. Rank	-	-	.01	-			
3. Gender	-	-	.23**	-.14*	-		
4. Career Sponsorship	3.92	1.55	.10	.02	.07	-	
5. Mentoring Commitment	4.79	1.02	.06	.11	.11	.21**	-
6. Undergraduate Students	2.73	2.74	.01	-.14*	.13*	-.02	.16*
7. Graduate Students	3.62	2.4	-.14*	.06	.01	.04	.14*

Note. N=255. Gender is coded 0=Man, 1=Woman.
* p < .05, **p < .01

Table 2. Regression Results of Direct and Indirect Effects for Number of Undergraduate Protégés.			
Variable	B	SE	t
Total and direct effects			
Total effect of career sponsorship on undergraduate students	-.05	.11	-.41
Mentoring commitment regressed on career sponsorship	.13	.04	3.19
Undergraduate students regressed on mentoring commitment, controlling for career sponsorship	.48	.17	2.82
Undergraduate students regressed on career sponsorship, controlling for mentoring commitment	-.11	.11	-.10
Bootstrapping results for direct and indirect effect	M	SE	Lower Level 95% CI
Direct Effect	-.11	.11	-.33
Indirect Effect	.06	.03	.01

Note: Process Model 4.
N = 255.

Table 3. Regression Results of Direct and Indirect Effects for Number of Graduate Protégés.			
Variable	B	SE	t
Total and direct effects			
Total effect of career sponsorship on graduate students	.07	.10	.78
Mentoring commitment regressed on career sponsorship	.13	.04	3.19
Graduate students regressed on mentoring commitment, controlling for career sponsorship	.33	.15	2.16
Graduate students regressed on career sponsorship, controlling for mentoring commitment	.03	.10	.34
Bootstrapping results for direct and indirect effect	M	SE	Lower Level 95% CI
Direct Effect	.03	.09	-.16
Indirect Effect	.04	.03	.00

Note: Process Model 4.
N = 255.